

PATENT SPECIFICATION

620,350



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Complete Specification Accepted : March 23, 1949.

Index at acceptance:—Class 132(i), A1c.

PROVISIONAL SPECIFICATION.

Improvements in the Supporting Frame of a Swing.

I, HARRY HEMSLEY SIMPSON, a British Subject, of 27, Bramcote Street, Old Radford, in the City of Nottingham, do hereby declare the nature of this invention to be as follows:—

This invention relates to improvements in the supporting frame of a swing and its object is to provide a frame in which the cross member, from which the swing is suspended, can be raised or lowered relatively to the ground, and which can be dismantled for storage or transport when desired.

According to this invention the frame for a swing comprises a horizontal member, from which the swing is suspended, supported at each end by a pair of extensible supports the upper ends of which are connected to the cross member whilst their lower ends rest upon the ground a suitable distance apart and disposed one to the front and one to the rear of the cross member. One or both pairs of supports are connected together with a tie bar to hold them in their relative positions.

In one method of carrying out this invention the supports are made telescopic and may conveniently comprise two tubes, one sliding inside the other. The upper ends of the supports may be flattened and formed with holes therein and be secured to the cross member by set screws passing through the holes and screwing into holes provided for the purpose in the ends of the cross member or they may be attached to the cross member in any other convenient manner which will permit of them being disconnected therefrom. Two supports are provided for each end of the cross member. The upper ends of the supports are connected to the cross member and they extend downwardly therefrom to the ground. Their lower ends are spaced a convenient distance apart, one to the front and one to the rear of the cross member, and are preferably disposed so that they are equidistant from the vertical plane passing through the axis of the cross member.

The uppermost tube of each support may conveniently slide within the lower tube and provision is made for securing the two tubes

together. The two tubes comprising each support are secured together by any suitable means which will permit of the length of the supports being adjusted to alter the height of the cross member from the ground. For this purpose one tube may have a series of holes therein and be connected to the other tube by a bolt or by a pawl engaging with a selected hole of the series. One or both pairs of supports are connected together by a tie bar to hold them in their relative positions. This tie bar is disposed a convenient distance from the ground and is adjustable for length or otherwise connected to the supports so that the angular relationship of the supports forming each pair can be retained constant with adjustments in the length thereof. The lower ends of the supports may be provided with ground plates and the supports may be arranged so that they extend outwardly from the cross member towards the ground.

If preferred the lower ends of the front and rear supports of each pair may be connected together. This may conveniently be done by bending a tube of suitable length so as to provide two upwardly extending parts a suitable distance apart, the upwardly extending parts forming the lower parts of the front supports. A tube similarly bent may form the lower parts of the rear supports. With this arrangement the cross member is supported by two substantially "U" shaped members the arms of which are telescopic.

The upper ends of the supports on each side of the cross member may be so arranged that the frames at the front and rear formed by the front and rear supports of the cross member may be folded together for storage purposes without the necessity of completely dismantling the frame.

In an alternative construction the cross member from which the swing is suspended is supported at each end by a pair of supports in a similar manner to that previously described. The supports are however made from angle sections of metal. Each support is made from two lengths of metal section which are joined together in any convenient

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manner which will permit of the length of the supports being adjusted. The two lengths of metal sections may conveniently be connected together by bolts and one of the 5 lengths of metal section be provided with a series of equidistantly spaced holes therein so that the length of the supports can be adjusted. The upper ends of the supports are connected to the cross member in any convenient manner. The supports at one or both 10 ends of the cross member are connected together by a tie bar to hold them in their relative positions.

The lower ends of the supports may be 15 provided with ground plates and the supports may extend outwardly from the cross member towards the ground. Alternatively the lower ends of the front supports of each pair

may be connected together by a cross member. The lower ends of the rear supports of 20 each pair may be similarly connected together.

The cross member is provided with two hooks or eyes to which the upper ends of the seat suspension ropes or the liek are connected. 25

The arrangement described provides a frame for a swing which is strong and rigid and can be adjusted for height. Furthermore it can be quickly dismantled for convenience 30 in storage or transport.

Dated the 11th day of January, 1947.

L. A. SHELDON,
25, St. James' Street, Nottingham,
Agent for the Applicants.

COMPLETE SPECIFICATION

Improvements in the Supporting Frame of a Swing.

I, HARRY HEMSLEY SIMPSON, a British Subject, of 27, Bramcote Street, Old Radford, in the City of Nottingham, do hereby 35 declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to improvements in 40 the supporting frame of a swing and its object is to provide a frame in which the cross member, from which the swing is suspended, can be raised or lowered relatively to the ground and which can be dismantled for storage 45 or transport when desired.

According to this invention the frame for a swing comprises a horizontal member, from which the swing is suspended, supported at each end by a pair of extensible supports, 50 the upper ends of which are connected to the cross member whilst their lower ends rest upon the ground a suitable distance apart and disposed one to the front and one to the rear of the cross member. One or both pairs of 55 supports may be connected together with a tie bar which is adjustable for length.

The invention will now be more particularly described with reference to the accompanying drawings, in which:—

60 Fig. 1 is a side elevation of one form of supporting frame for a swing in accordance with the invention;

Fig. 2 is a plan view of the frame of Fig. 1;

65 Fig. 3 is a side elevation of another form of supporting frame for a swing in accordance with the invention;

Fig. 4 is a plan view of the frame of Fig. 3;

70 Fig. 5 is a side elevation of yet another form of supporting frame for a swing in accordance with the invention, and

Fig. 6 is a plan view of the frame of Fig. 5.

Like letters indicate like parts throughout 75 the drawings.

In the frame shown in Figs. 1 and 2 the supports are made telescopic and comprise two tubes A, B one sliding inside the other. The upper end of the supports are flattened 80 and formed with holes therein and are secured to the cross member C by set screws D passing through the holes and screwing into holes provided for the purpose in the ends of the cross member or they may be attached 85 to the cross member in any other convenient manner which will permit of them being disconnected therefrom. Two supports are provided for each end of the cross member C and they extend downwardly therefrom to 90 the ground. Their lower ends are spaced a convenient distance apart, one to the front and one to the rear of the cross member, and are disposed so that they are equidistant from the vertical plane passing through the axis 95 of the cross member.

The uppermost tube B of each support slides within the lower tube A and provision is made for securing the two tubes together. For this purpose tube B has a series of holes 100 B¹ therein and is connected to the other tube A by a bolt E. The two supports of each pair are connected together by a tie bar F to hold them in their relative positions. This tie bar F is disposed a convenient distance 105 from the ground and is adjustable for length as shown in the drawings so that the angular relationship of the supports forming each pair can be retained constant with adjustments in the length thereof. The lower ends 110 of the supports are provided with ground plates G and the supports are arranged so that they extend outwardly from the cross member towards the ground as shown in Fig. 2.

The cross member C is provided with two hooks or eyes to which the upper ends of 115

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the seat suspension ropes or the like are connected. The shanks of the hooks or eyes pass through the cross member and are secured in position by nuts M.

- 5 If preferred the lower ends of the front and rear supports of each pair may be connected together. This may conveniently be done as shown in Figs. 3 and 4 by bending a tube H of suitable length so as to provide
10 two upwardly extending parts H¹ a suitable distance apart, the upwardly extending parts forming the lower parts of the front supports. A tube similarly bent forms the lower parts of the rear supports. With this
15 arrangement the cross member C is supported by two substantially "U" shaped members the arms of which are telescopic.

The upper ends of the supports on each side of the cross member C may be attached
20 to the latter so that front and rear supports of the cross member may be folded together for storage purposes without the necessity of completely dismantling the frame.

- In an alternative construction shown in
25 Figs. 5 and 6 the cross member C from which the swing is suspended is supported at each end by a pair of supports in a similar manner to that previously described. The supports are however made from angle sections of
30 metal. Each support is made from two lengths J, K of metal section which are joined together by bolts L, lengths K of metal section being provided with a series of equidistantly spaced holes K¹ therein so that the
35 length of the supports can be adjusted. The upper ends of the supports are connected to the cross member by set screws. The supports at both ends of the cross member are connected together by adjustable tie bars F
40 to hold them in their relative positions.

The lower ends of the front supports of each pair may be connected together by a cross member. The lower ends of the rear supports of each pair may be similarly connected together.
45

The arrangement described provides a frame for a swing which is strong and rigid and can be adjusted for height. Furthermore it can be quickly dismantled for convenience
50 in storage or transport.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

- 55 1. A frame for a swing comprising a hori-

zontal member from which the swing is suspended, supported at each end by a pair of extensible supports the upper ends of which are connected to the cross member whilst their lower ends rest upon the ground a suitable distance apart and disposed one to the front and one to the rear of the cross member.

2. A frame for a swing according to Claim 1 in which one or both pairs of supports are connected together by a tie member which
65 is adjustable for length.

3. A frame for a swing according to the preceding Claims 1 or 2 in which the supports consist of telescopic tubes.

4. A frame for a swing according to Claim 70 8 in which the supports comprise two tubes one of which slides within the other and which are secured together by means which permit of the length of the supports being adjusted.
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5. A frame for a swing according to Claim 4 in which one tube is formed with a series of holes therein and is secured to the other tube by a bolt passing through both tubes.

6. A frame for a swing according to the
80 preceding Claims 1 and 2 in which the supports consist of two lengths of angle sections of metal secured together so that the lengths of the supports can be adjusted.

7. A frame for a swing according to Claim 85 6 in which one length of angle section of each support is formed with a series of holes therein and is connected to the other length by bolts.

8. A frame for a swing according to the
90 preceding Claims 1 to 7 in which the lower ends of the supports are attached to ground plates.

9. A frame for a swing according to the preceding Claims 1 to 8 in which the lower
95 ends of the front and rear supports are connected together.

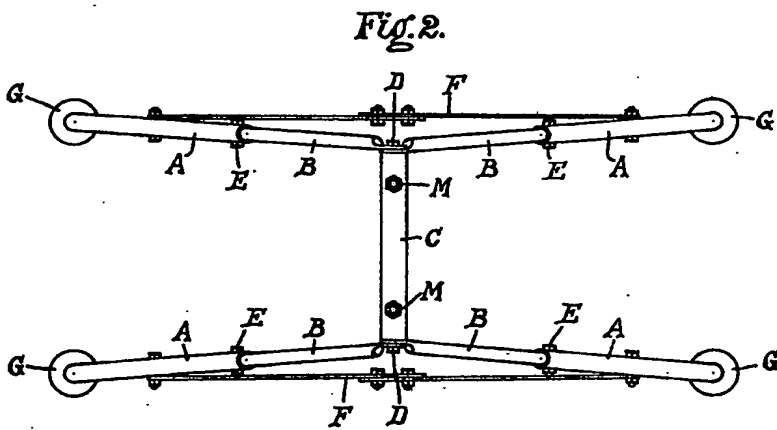
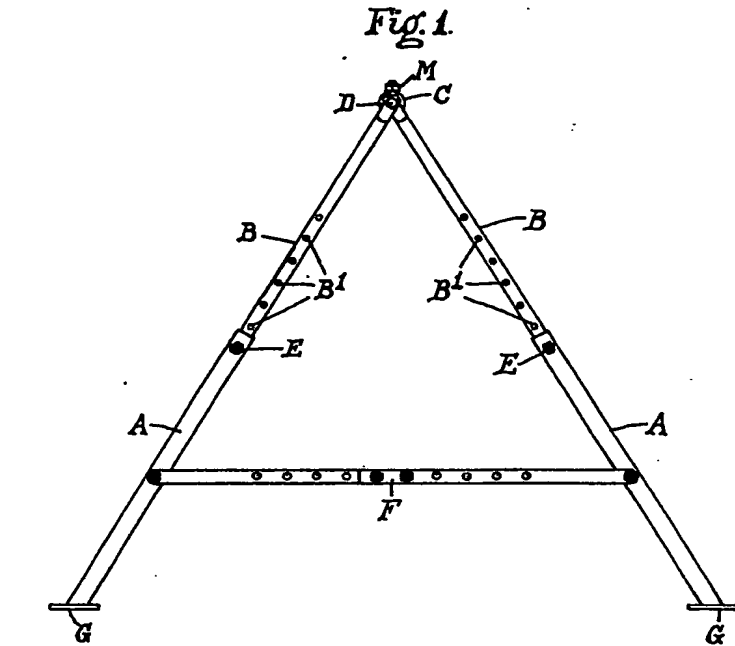
10. A frame for a swing according to the preceding Claims 1 to 5 in which the lower tubes of the front and rear supports are
100 formed by the sides of substantially "U" shaped members.

11. A frame for a swing constructed substantially as herein described with reference
105 to the accompanying drawings.

Dated this 12th day of February, 1948.

E. A. SHELDON,
25, St. James' Street, Nottingham,
Agent for the Applicant.

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[This Drawing is a reproduction of the Original on a reduced scale.]

Fig. 3.

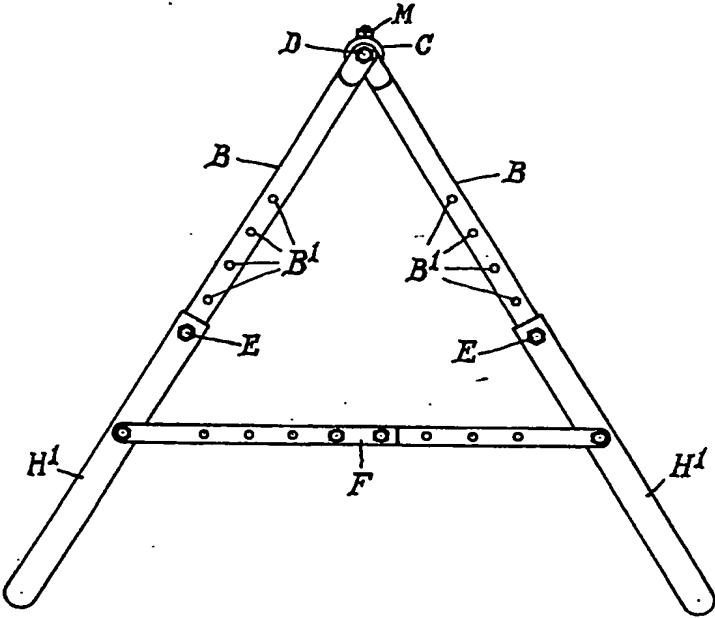
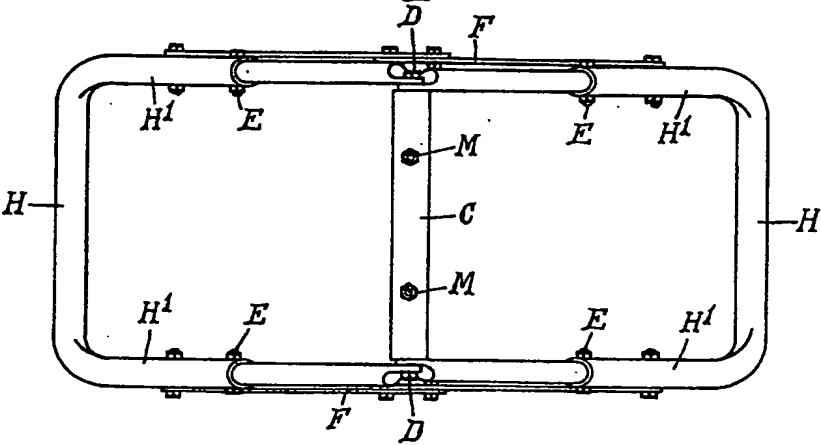


Fig. 4.



SHEET 2

3 SHEETS
SHEET 3

Fig. 5.

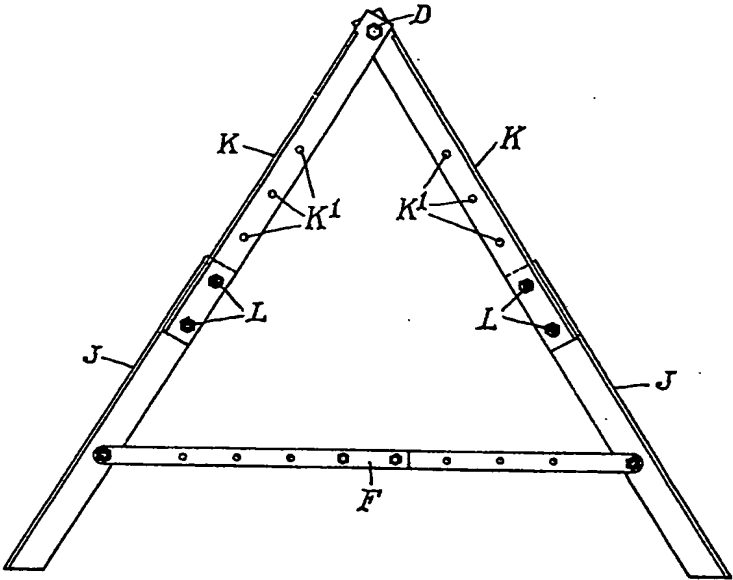
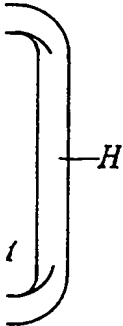
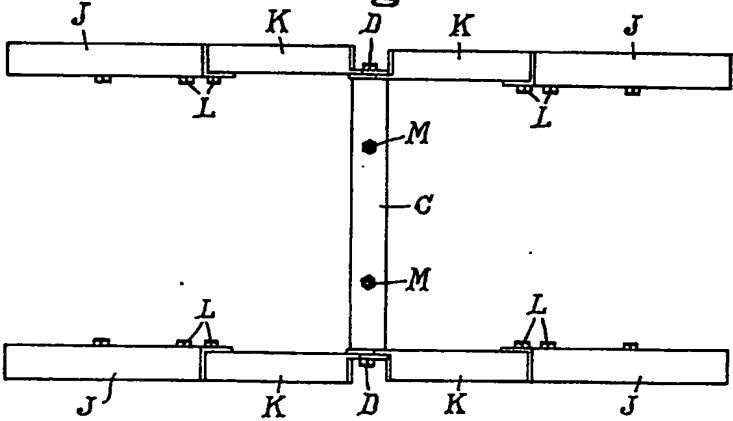
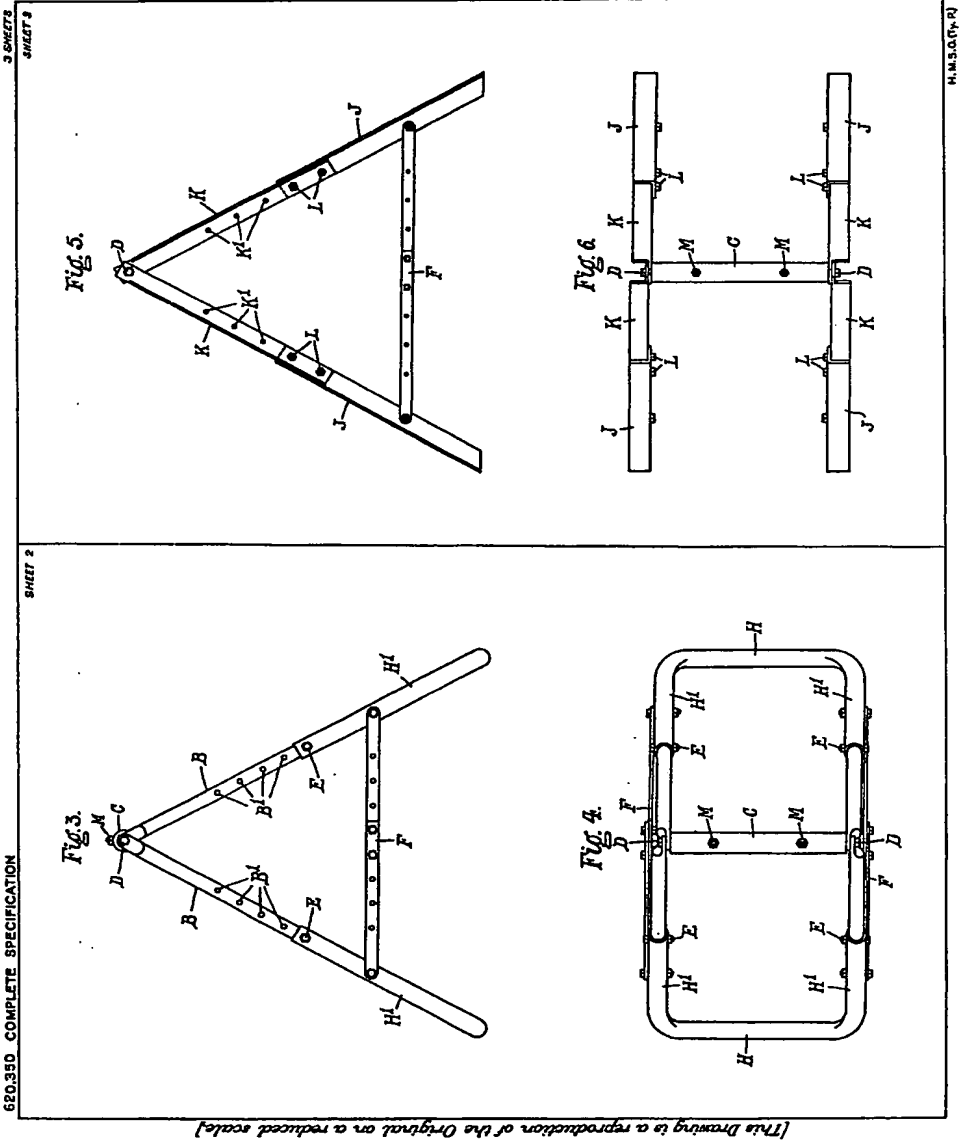


Fig. 6.





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